

Steering wheel vibrations in vehicle speed range between 70 - 80 mph

Topic number	LI40.10-N-070401
Version	1
Function group	40.10 Wheels, tires
Date	10-11-2019
Validity	Model 906
Reason for change	
Reason for block	

Complaint:

Steering wheel vibrations in specified vehicle speed range. Vehicle vibrations can also be felt.

Note:

This document supersedes LI40.10-N-048693

Cause:

Radial force variations and/or imbalance in the front wheels are transferred to the steering wheel/vehicle in the form of vibrations.

Note:

Tires not recommended by Mercedes-Benz can aggravate this problem.

Remedy:

The complaint must be reproduced by means of a test drive.

If it is not possible to reproduce the complaint, contact the customer. Otherwise, process the following points one after the other.

- 1) Check wheels for damage and tire inflation pressure. Replace any damaged, unusable wheels. Correct the tire inflation pressure. Perform a test drive if the deviations are greater than 0.5 bar.
- 2) Check radial force variation (RFV) of the front wheels on a suitable machine (see attachment for example) (target: RFV < 90N), file measurements in a tamperproof manner. Match the wheels if this value is exceeded.
- 3) Balance wheels on wheel balancing machine.
- 4) Mount the wheels. Ensure that they are seated centrally and tighten the wheel studs/wheel nuts finger-tight in a crosswise pattern, then tighten to the required tightening torque.
- 5) Perform test drive. If the problem is still present, continue with step 6).
- 6) Check whether the specified steering gear is installed, replace if necessary.
- 7) Perform test drive.

Attachments	
File	Description
Maschine zur Bestimmung der RKS.jpg	Example of a machine for determining RFV

Symptoms
Chassis/suspension / Noises / Vibrates
Chassis/suspension / Steering system / Steering wheel / Vibrates
Chassis/suspension / Steering system / Steering wheel / Torsional vibrations at steering wheel

XENTRY TIPS

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 906 460 13 00	80		Steering gear LHD	1	The steering gear is installed at the plant as of chassis end number: S325466 / N393897 / S562081	X

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
40-0000	ELIMINATE STEERING WHEEL VIBRATIONS		40001 20	

WIS-References			
Document number	Title	Note	Allocation
GF40.10-D-0801HA	Installation survey of tires / rims, production details	MODEL 906.#1#	Remedy
GF40.10-D-0801HB	Installation survey of tires / rims, production details	MODEL 906.#3#	Remedy
GF40.10-D-0801HC	Installation survey of tires / rims, production details	MODEL 906.#5#	Remedy
GF40.10-D-0801HD	Installation survey of tires / rims, production details	MODEL 906 with code ZM1	Remedy

Validity		
Vehicle	Engine	Transmission
Sprinter III	*	*

Attachments

XENTRY TIPS

Maschine zur Bestimmung der RKS.jpg:

